



Orange County Sanitation District

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OPERATIONS COMMITTEE

Agenda Report

File #: 2020-914

Agenda Date: 2/26/2020

Agenda Item No: 8.

FROM: James D. Herberg, General Manager
Originator: Rob Thompson, Assistant General Manager

SUBJECT:

ON CALL PLANT NO. 1 & PLANT NO. 2 MEDIUM VOLTAGE CABLE TESTING SERVICES (MP-320)

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve a three-year service contract with Halco Service Corp. for assessment and testing of Plant No.1 and Plant No. 2 medium voltage cables per Specification No. S-2019-1107BD, for a total amount not to exceed \$491,655; and
- B. Approve a contingency of \$73,748 (15%).

BACKGROUND

The Orange County Sanitation District (Sanitation District) maintains large electrical distribution systems at the treatment plants utilizing medium voltage cables. The Plant No.1 and Plant No. 2 electrical distribution systems utilize redundant 12,470 volt feeds from a Southern California Edison utility substation and the Central Generation facilities. The distribution systems supply power to multiple Power Buildings and Electrical Distribution Centers; some of which have diesel standby generators. This system also contains a mix of medium voltage vacuum circuit breakers, protective relays, load interrupter switches, and fuse protection. Performing condition-based assessments and testing of critical medium voltage feeder circuits will reduce the risk of unexpected cable failures, improve cable system reliability, and identify needed repairs or replacement of medium voltage feeder cables.

RELEVANT STANDARDS

- Protect Orange County Sanitation District assets
- 24/7/365 treatment plant reliability
- Maintain a proactive asset management program

PROBLEM

The Sanitation District does not possess the necessary equipment or expertise to perform comprehensive medium voltage cable testing. Medium voltage cable testing is recommended to identify cables that are at risk of failure.

PROPOSED SOLUTION

The Sanitation District recommends contracting with Halco Services Corp. as the lowest responsive and responsible bidder for on-call services to perform medium voltage feeder cable testing and assessments of Plant No.1 and Plant No. 2 medium voltage cables.

TIMING CONCERNS

Proceeding in a timely manner is desired to identify compromised or failing medium voltage feeder cables and prevent catastrophic failures to electrical distribution systems resulting in operational delays and to sustain a safe working environment during an emergency.

RAMIFICATIONS OF NOT TAKING ACTION

The inability to manage and predict cable service life could result in unpredictable forced outages. Forced outages interrupt and debilitate operational processes and increase safety risks in tunnels and vaults.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

The Sanitation District received two sealed bids on December 23, 2019. The bids were evaluated in accordance with the Sanitation District's policies and procedures. Staff recommends awarding the service contract to the lowest, responsive, and responsible bidder, Halco Service Corp.

Summary information on the bid opening is as follows:

| Bidder | Amount of Bid |
|-----------------------------------|---------------|
| Halco Service Corp | \$491,655 |
| Hampton Tedder Technical Services | \$1,235,000 |

A contingency of 15% is recommended due to unforeseeable delays or operational issues resulting from complex outages impacting large process areas.

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This recommendation will be funded under the Repair and Maintenance line item for Operations and Maintenance Department (Budget Update Fiscal Year 2019-20, Page 47). The available funding is sufficient for this action.

| <u>Date of Approval</u> | <u>Contract Amount</u> | <u>Contingency</u> |
|-------------------------|------------------------|--------------------|
| 02/26/2020 | \$491,655 | \$73,748 (15%) |

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- Service Contract for S-2019-1107BD

RM:jg:ab